

St. Louis, Missouri

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Mr. H. I. Armstrong

Roberts Building

PYDRAUL 150

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Dr. Treon and I spent an afternoon with the Navy people to discuss Pydraul 150. Those present were Captain Shone, Captain Alvis, Captain Sessions, Commander Siegel and Mr. Mickey Albert. They discussed their information concerning Pydraul 150 which was obtained at the Naval Institute of Medical Research. While reports were not available, they had the following general data:

skin applications of Pydraul 150 caused death in all of the rabbits tested. (The amount administered was not given.) A like amount of Cellulube 220 did not cause any deaths.

The inhalation of 10 milligrams of Pydraul 150 per cubic meter or approximately 2 tenths of a part of the Aerochlor component per million for 24 hours a day for 50 days caused, statistically, definite liver damage. No matter how we discussed the situation, it was impossible to change their thinking that Pydraul 150 is just too toxic for use in a submarine. It may be that such concentrations would never be reached in the submarine but the Navy does not appear willing to even put the material in a trial run to see if it will work.

It would appear, therefore, that we should discontinue to sell Pydraul 150 for this particular application and try to develop a hydraulic fluid without Aerochlor as one of its components. In this connection, Cellulube 220 is not used in a submarine but it was used in this test merely as a yardstick.

The Navy said they did not have any competitive fluid far enough along engineering-wise to even consider the toxicity of it.

R. Emmet Kelly, M.D.

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